Service Manual

ViewSonic VE170 & VE170b

Model No. VLCDS22034-1 VLCDS22034-1b

17" Color TFT LCD Display





(VE170B SM 182 - Rev. 1 - December 2000)

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Revision History

Revision	Date	Description Of Changes	Approval
1.0	12/7/00	Initial Issue – DCN988	T. Sears

TABLE OF CONTENTS

1. PRECAUTIONS & SAFETY NOTICES	1~2
2. SERVICE TOOLS & EQUIPMENT	2
3. SPECIFICATIONS	2~3
4. EXPLODED VIEW & PARTS LIST	4~6
5. BLOCK DIAGRAM	7
6. SCHEMATIC DIAGRAMS	8~13
7. THEORY OF OPERATION	14~15
8. WIRING DIAGRAM	16
9. PCB LAYOUT	17~20
10. TROUBLESHOOTING FLOW CHART	21~24
11. ADJUSTMENTS	25~26
12. PARTS LIST	27~32

1. PRECAUTION AND NOTICES

1.1. SAFETY PRECAUTIONS

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may cause damage to the monitor as well as to the user. Carefully go over the following WARNINGS before installing and keep this guide handy.

WARNINGS:

- ♦ This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- Use only the special power adapter that comes with this monitor for power input.
- ◆ Do not try to repair the monitor yourself as it contains no user-serviceable parts. This monitor should only be repaired by a qualified technician.
- ◆ Do not remove the monitor cabinet. There is high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is unplugged.
- ♦ Stop using the monitor if the cabinet is damaged. Have it checked by a service technacian.
- Put your monitor only in a clean, dry environment. If it gets wet, unplug the power cable immediately and consult your service technician.
- ◆ Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth.

 Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- ♦ Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- ◆ Do not place heavy objects on the monitor or power cord.

1.2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltages, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

1.3. SERVICE NOTES

- 1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
- 2. When replacing a high wattage resistor (more than 1W of metal oxide film resistor) in circuit board, keep the resistor about 5mm away from circuit board.
- 3. Keep wires away from high voltage, high temperature components and sharp edges.
- 4. Keep wires in their original position so as to reduce interference.
- 5. Usage of this product please refer to also user's manual.

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2. SERVICE TOOL & EQUIPMENT REQUIRED

- 1. SIGNAL GEN.
- 2. MULTIMETER
- 3. OSCILLOSCOPE
- 4. SCREW DRIVER
- 5. IRON
- 6. ABSORBER
- 7. SOLDER
- 8. DUMMY LOAD (5 Ω /200W)

3. SPECIFICATIONS

3.1. PRODUCT SPECIFICATIONS

LCD Panel

17.0" TFT

Power Management

Energy Star compliant VESA

DPMS compatible

< 3W

Displayable Resolution

SXGA 1280×1024 max.

Pixel Dimension

0.264×0.264mm

LCD Display Color

16.7M Color Max.

Viewing Angle

CR≧10

Horizontal: ±80° Vertical: ±80°

Tilt

+20°, -5°

Contrast Ratio Brightness 200:1 (min) 200 cd/m² (typ.)

Response Time

Tr: 34 ms Tf: 39ms

Active Display Area

338mm×270mm

Temperature

Operating: $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$ Storage: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Compliance

UL, c-UL, FCC-B, CB report and certificate, ISO13406-2, CE, IC-B(DOC-B), TÜV/GS, TÜV/ERGO, MPR II, TCO99, TCO95 (VE170b), NEMKO, DEMKO, SEMKO, FIMKO, GOST-R (PCT)+20 original copies of Hygienic(BZ02).

Power

Voltage: 100~240 V Consumption: 50 Watts

3.2. PRIMARY PRESETS & LOOK UP TABLE TIMING

Primary Preset:

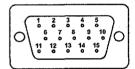
VESA 1280 x 1024 @ 75Hz

Look up table timing:

- 1. IND 640 x 350 @ 70Hz, 31.47kHz, -/+
- 2. IND 720 x 400 @ 70Hz, 31.467kHz, +/-
- 3. IND 640 x 400 @ 70Hz, 31.469kHz, +/-
- 4. VESA 640 x 480 @ 60Hz, 31.5kHz
- 5. MAC 640 x 480 @ 67Hz, 35kHz, composite
- 6. VESA 640 x 480 @ 72Hz, 37.861kHz, -/-
- 7. VESA 640 x 480 @ 75Hz, 37.5kHz, -/-
- 8. VESA 800 x 600 @ 56Hz, 35.156kHz, +/+
- 9. VESA 800 x 600 @ 60Hz, 37.879kHz, +/+
- 10. VESA 800 x 600 @ 72Hz, 48.077kHz, +/+
- 11. VESA 800 x 600 @ 75Hz, 46.875kHz, +/+
- 12. MAC 832 x 624 @ 75Hz, 49.725kHz, composite
- 13. VESA 1024 x 768 @ 70Hz, 56.476kHz, -/-
- 14. VESA 1024 x 768 @ 72Hz, 58.036kHz, -/-
- 15. VESA 1024 x 768 @ 75Hz, 60.023kHz, +/+
- 16. MAC 1024 x 768 @ 75Hz, 60.241kHz, composite

3.3. D-SUB CONNECTOR

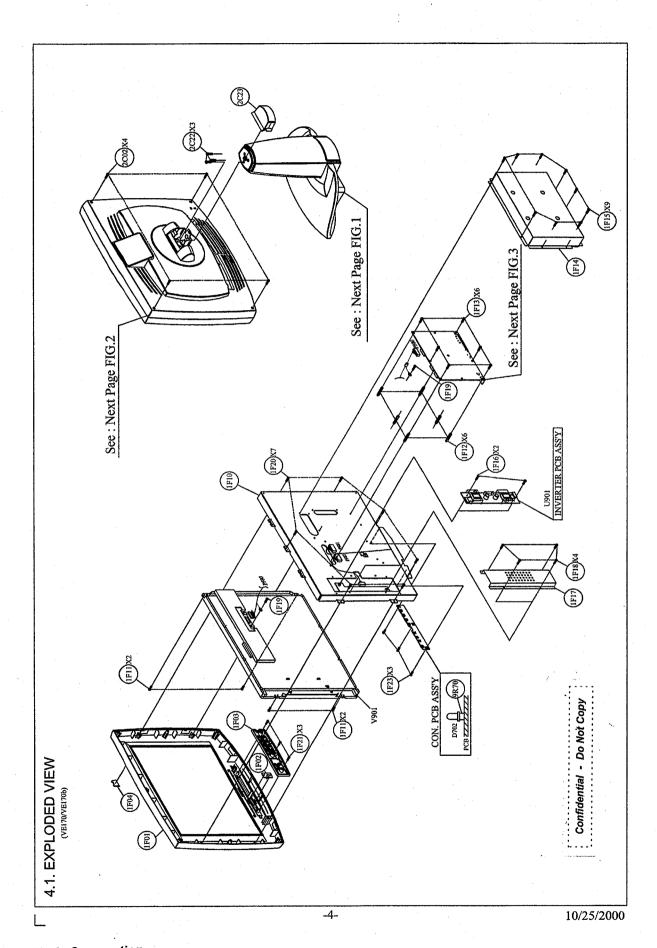
D-SUB 15 PIN CONNECTOR

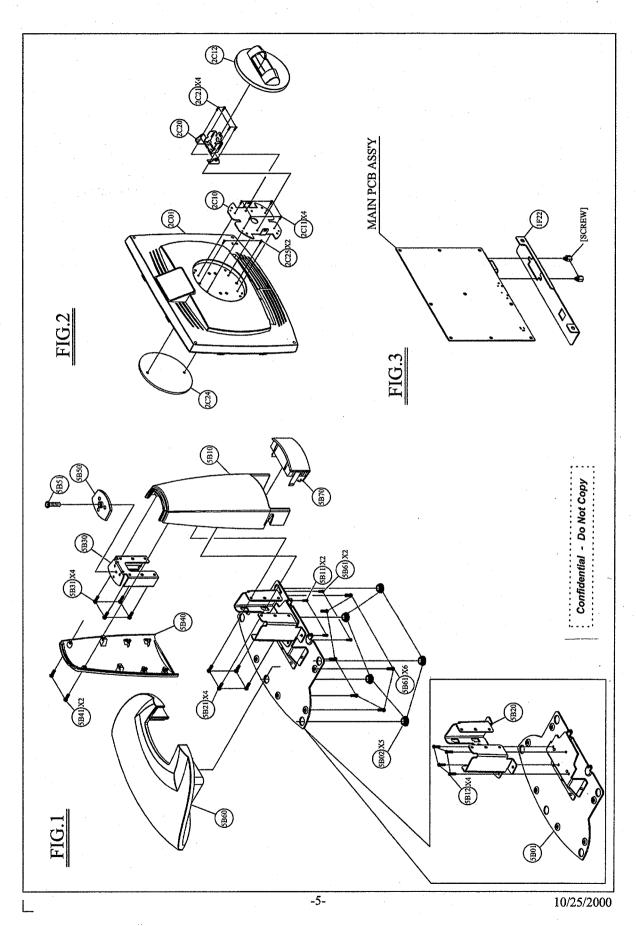


1.R	6.GND	11.GND
2.G	7.GND	12.SDA
3.B	8.GND	13.H.SYNC
4.GND	9. +5V	14.V.SYNC
5.NC	10.GND	15.SCL

SIGNAL LEVEL

CONNECTOR	SIGNAL	DESCRIPTION
R	RED	0.7vp-p(VIDEO)
G	GREEN	0.7vp-p(VIDEO)
В	BLUE	0.7vp-p(VIDEO)
Н	H/SYNC	TTL positive or negative
V	V/SYNC	TTL positive or negative
SDA	DDC1/2B	TTL
SCL	DDC1/2B TTL	

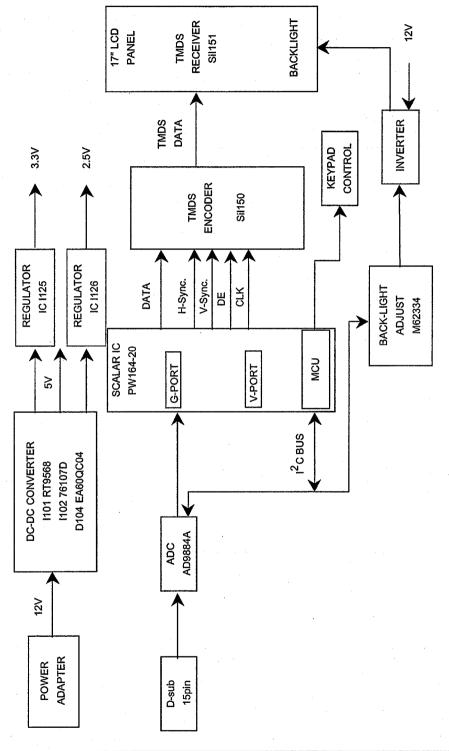




4.2. EXPLODED VIEW PARTS LIST

_							
	Ref. No.	Source	Part No.	DESCRIPTION	SPECIFICATION	QʻTY	REMARK
ı	1F01		2024260601		ABS 94HB GY7521 VE170	1	For VE170
ı	1F01		2024260602	1	VE170B ABS 94HB 3U2X	1	For VE170b
1	1F02			LED INDICPWR	PMMA VE170	1	
1	1F03			FUNCTION KEY	ABS 94HB GY7521 VE170	1	For VE170
1	1F03			FUNCTION KEY	VE170B ABS 94HB 3U2X	1	For VE170b
ł	1F04			NAME PLATE	M70/M90 VIEWSONIC 3bird LOGO	1	
ı	1F10	-		METAL FITTG	SECC 1.2t SAMSUNG 17" VE170	1	
1	1F11			SCREW,BND+	M3*12 (BND+) WITH NYLOK	4	'
ı	1F12			BOSS,THREAD	JT178A COPPER M3X27H	6	
١	1F13		`	SCREW,BND+	M3X6(BND+)	6	,
١	1F14			SHIELD PLATE	SPTE 0.3mm VE170	1	•
ı	1F15			SCREW,BND+	M3X6(BND+)	9	
١	1F16			SCREW,BND+	M3X6(BND+)	2	
١	1F17			SHIELD PLATE	JT178A SPTE 0.3t FOR INVERTER	1	
ı	1F18			SCREW,BND+	M3X6(BND+)	4	
ı	1F19			SCREW,BND+	M3X6(BND+)	2	
1	1F20			SCREW,BND+	M3X6(BND+)	7	
١	1F21			SCREW,BND+	M3X6(BND+)	3	
١	1F22			METAL FITTG	SECC t=0.8mm	1	
١	1F23			SCREW,BND+	M3X6(BND+)	3	
١	2C01			CABI BACK	ABS 94HB GY7521 VE170	1	For VE170
ı	2C01			CABI BACK	VE170B ABS 94HB 3U2X	1	For VE170b
١	2C02			SCREW,BND+	M3X12(BND+)	4	
١	2C10			BRACKET,FIX	SPCC 2t COATING NIKEL VE170	1	
ĺ	2C11			SCREW,B OTW+	M3*8(B OTW+)WITH NYLOK	4	
	2C12			DUST COVER	ABS 94HB GY7521 VE170	1	For VE170
ı	2C12			DUST COVER	VE170B ABS 94HB 3U2X	1	For VE170b
1	2C20		2106651300		26~28KGF-cm -5'-35' SPRING	1	
1	2C21			SCREW,B OTW+	M4*10 (B OTW+) WITH NYLOK	4	
١	2C22			SCREW,B OTW+	M4*10 (B OTW+) WITH NYLOK	3	n 155150
. 1	2C23			DUST COVER	VE150-2 hinge ABS94HB/GY7521	1	For VE170
ı	2C23			DUST COVER	VE150B-2 ABS94HB/3U2X hinge-B	1	For VE170b
ı	2C24			METAL FITTG	SECC t=1.2mm φ 159	1	
1	2C25			SCREW,BND+	M3X6(BND+)	2	
1	5B01			BRACKET,FIX	FOR STAND SPCC2.5 NICKEL	1	
ı	5B02		2039800901		RUBBER φ 20X2t white	5	D 175150
ı	5B10		2028551001		VE150-2 ARM-B ABS94HB/GY7521	1	For VE170
١	5B10	- 1	2028551002		VE150B-2 ABS94HB/3U2X ARM-B	1 2	For VE170b
ı	5B11			SCREW,BND+	M3X6(BND+)	4	
I	5B12			SCREW,B OTW+	SCREW B OTW+ M4X8	1 1	
Į	5B20			BRACKET,FIX	FOR ARM-B SPCC2.0 NICKEL SCREW B OTW+ M4X8	4	
ı	5B21			SCREW,B OTW+ BRACKET,FIX	FOR ARM-T SPCC2.0 NICKEL	1 1	
1	5B30 5B31			SCREW,B OTW+	SCREW B OTW+ M4X8	4	
1	5B31		2028550901	1 '	IVE150-2 ARM-F ABS94HB/GY7521	1 .	For VE170
ı	5B40 5B40		2028550901	i e	VE150-2 ARM-F ABS94HB/G1 /521 VE150B-2 ABS94HB/3U2X ARM-F	1 1	For VE170
	5B40 5B41			SCREW,BND T+	M3X14(BND T+)	2	101 121/00
ı	5B50		2074158400	1 '	VE150-2 hinge support NYLON66	1	
1	5B51			SCREW,BND+	M4X10(BND+)	1 1	
I	5B60		2082740102		VE150-2 ABS94HB/GY7521 STAND-T	1	For VE170
١	5B60		2028252701		VE150-2 ABS941B/G17521 STAND-1 VE150B-2 ABS94HB/3U2X STAND-T	3 - 1	For VE170b
1	5B61			SCREW,BND T+	M4X10(BND T+)	8	101 +11/00
1	5B70			DUST COVER	VE150-2 ABS94HB/GY7521 STAND		For VE170
١	5B70			DUST COVER	VE150B-2 ABS94HB/3U2X STAND-B		For VE170b
1	9R70		2074157800		JT166A LED HOLDER TO-05(3.3MM)	l i l	
L	71C/U		2017237000	14441441	In Trous Troubles To-on (2.21/11/1)		

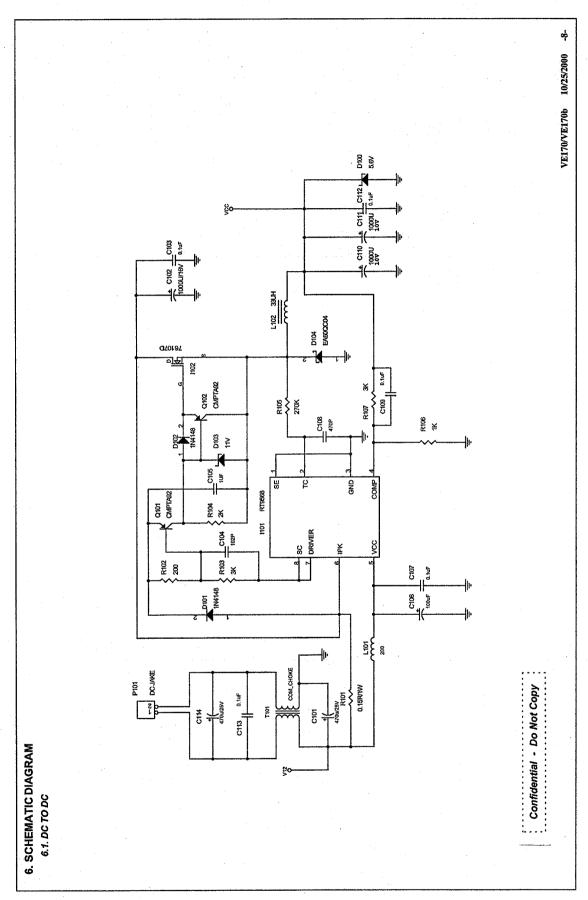
5. BLOCK DIAGRAM

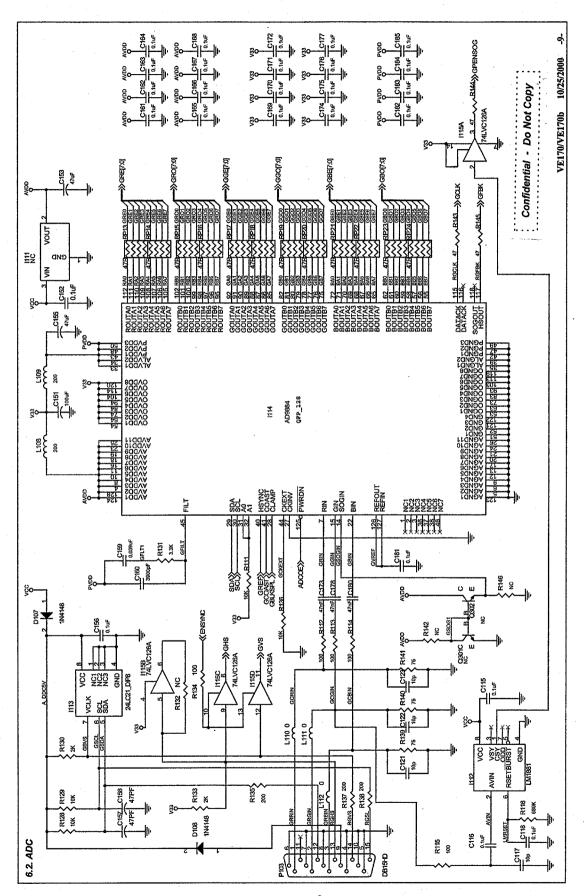


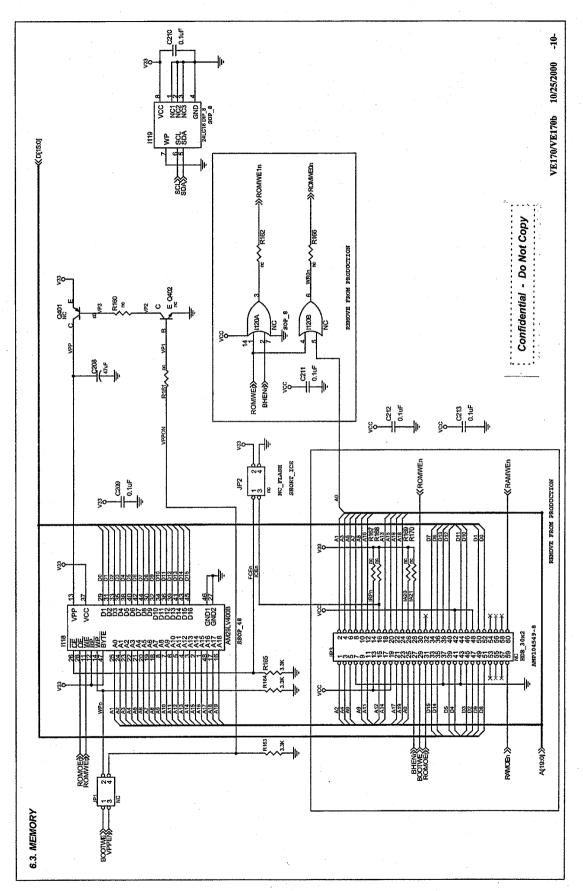
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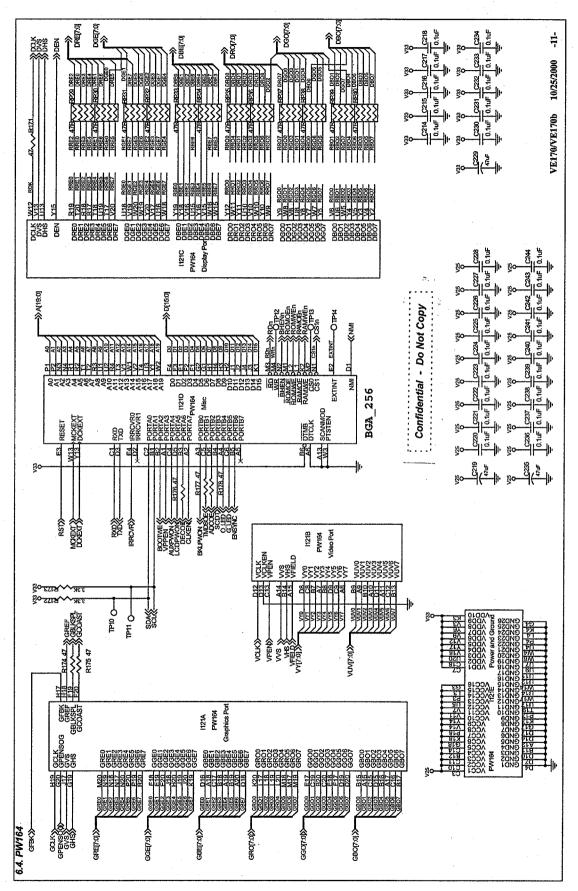
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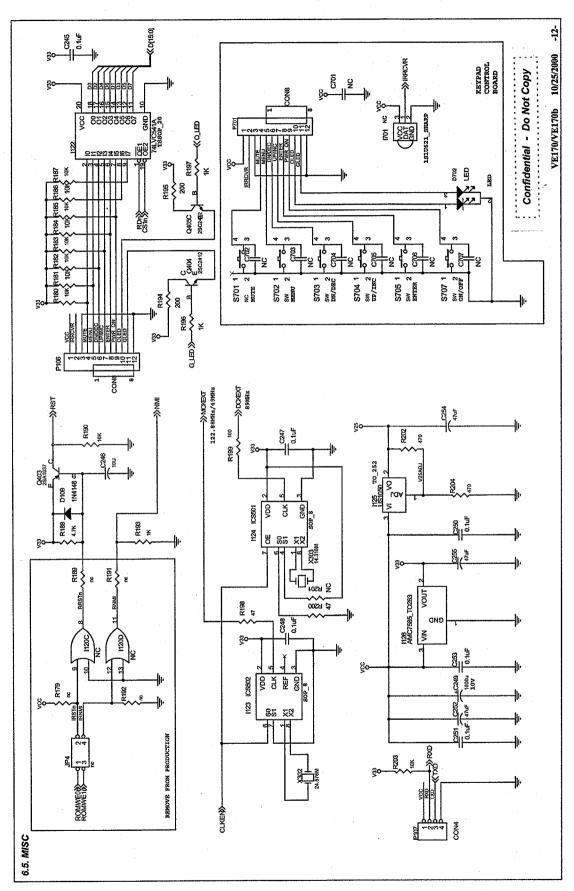
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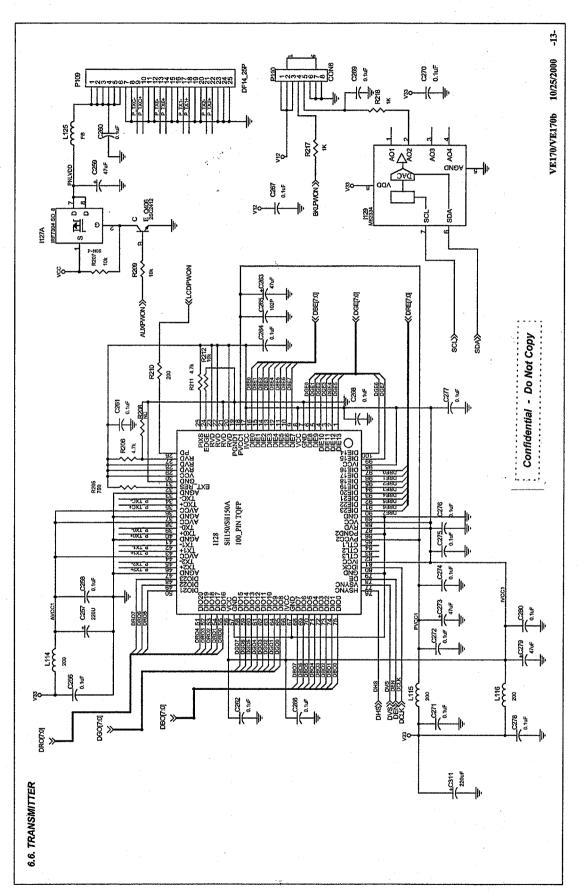












7. WORKING THEOREM

A. DC-DC CONVERTER

This brick converts the 12V input voltage to 5V for panel use and 3.3V/2.5V for controller use. It consists of a PWM IC (RT9568), switching MOSFET (76107D), flywheel Diode (EC60QC04), buck choke (L102), and capacitor C110.

I101 (RT9568) is a PWM generator working at 90Khz around with an external oscillation capacitor (C108).

It has internal protection circuitry with one external resister (R101) for current limit.

The output of RT9568 drives Q101/Q102 to turn I102, and C105 provides the boost voltage to turn on I102, and D104 provides the current path while I102 is off.

L102/C110 are to rectify PWM output into DC voltage, and R106/R107 are to sense the DC output, then feed back to error amplifier inside of RT9568, so the DC output can be regulated at the following formula.

 $V_0 = 1.25V * (1+R107/R106)$

B. AID converter

The ADC is to convert RGB analog signal to digital signal that scaling chip can acknowledge. The AD9884A is a complete 8-bit 140Msps monolithic analog interface optimized for capturing RGB graphic signal, a +3.3V power supply is necessary. Its140Msps encode rate capability and full-power analog Bandwidth 500Mhz supports display resolutions of up to 1280x1024 at 75Hz. A clamp signal is generated internally or may be provided through the CLAMP input pin. This device is fully programmable via a two-wire serial port.

The HSYNC input receives a logic signal and provides the frequency reference for pixel clock generation.

The clock generator COAST input may be used to stop synchronizing with HSYNC and continue producing a clock at its present frequency and phase.

The CLAMP logic input may be used to define the time during which the input signal is clamped to GND, establishing a black reference.

When the Power Down control input is bringing to low, AD9884a is put into a very low power dissipation mode, all the output buffers are placed in a high-impedance state.

C. Scaling controller

The scaling IC is to converts the input signal ranging from VGA to SXGA into SXGA resolution that panel can acknowledge.

PW164-20R is an only 3.3v tolerance on all I/O pins and a highly integrated system on a chip. Including an embedded DRAM frame- buffer, a x86 microprocessor and on-screen display memory.

The on-chip 16-bit microprocessor is an optimized x86 compatible processor core with on-chip peripherals (timers, interrupt controller, UART, I/O ports, etc.). Special Infrared (IR) pulse decoders are also included.

The PW164 supports acquisition on one of two input ports, Graphics and Video. The two input ports share a common sync decoder, and automatic image optimization circuitry.

The Graphic Port can support very high input bandwidth up to 158M Pixels/sec. The Video Port is generally used to support video inputs, and can support input data rates up to 95M Pixels/sec.

The panel interface consists of 48-bit panel data bus, H-sync, V-sync, DE, and GCLK signals. The AUXPWON signal is to control the supply to panel, LCDPWON signal is to enable chip

The AUXPWON signal is to control the supply to panel, LCDPWON signal is to enable chip Sil150 for TMDS signal encoding.

The panel interface also controls the back light inverter, signal BKLPWON is to enable/disable inverter and chip M62334 is for inverter output current control through IIC interface.

D. INVERTER

In order to drive the CCFLs embedded in the panel module, there is a ROYER inverter to convert the input 12V up to hundreds of AC voltage output.

The inverter is formed by symmetric circuitry, in order to drive the separate lamp modules.

The input stage consists of a PWM controller, buck choke, and switching MOSFET to convert DC input into AC output.

The output stage consists of a tuning capacitor, transformer, push-pull transistor pair to boost ac output up to hundreds of voltage.

And one resister is serial to lamp for output current feedback.

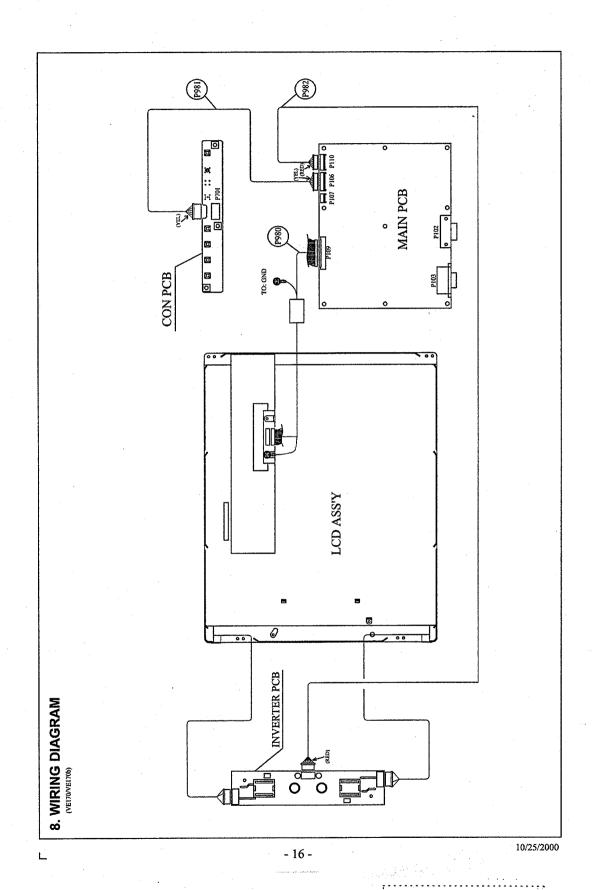
A 6-pin connector is the only interface to control the inverter.

Pin 1/2 is 12V input, pin 5/6 is the returns, pin 4 is the control of output current, and pin 3 is the enable/disable control.

-15-

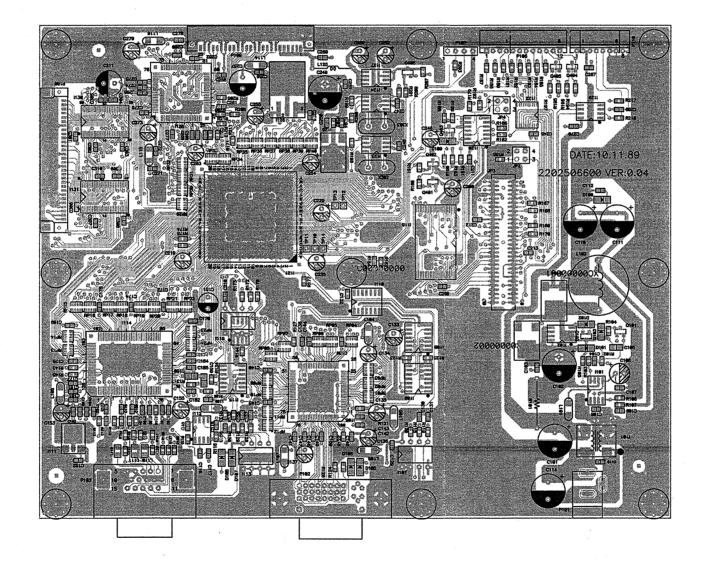
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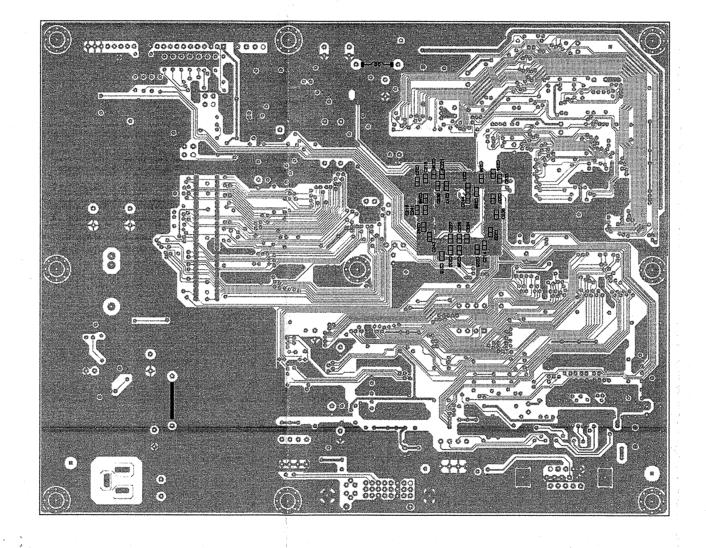
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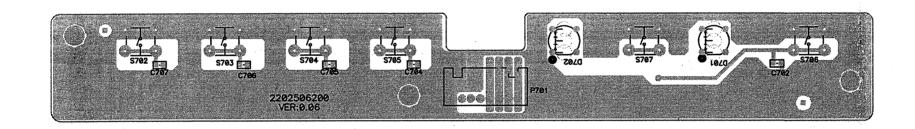
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9. PCB LAYOUT 9.1. MAIN PCB TOP VIEW





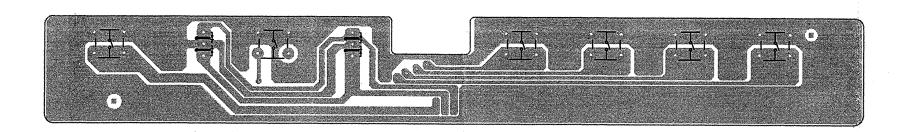
9.3. CON PCB TOP VIEW



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VE170/VE170b 10/25/2000 -19-

9.4. CON PCB BOTTOM VIEW



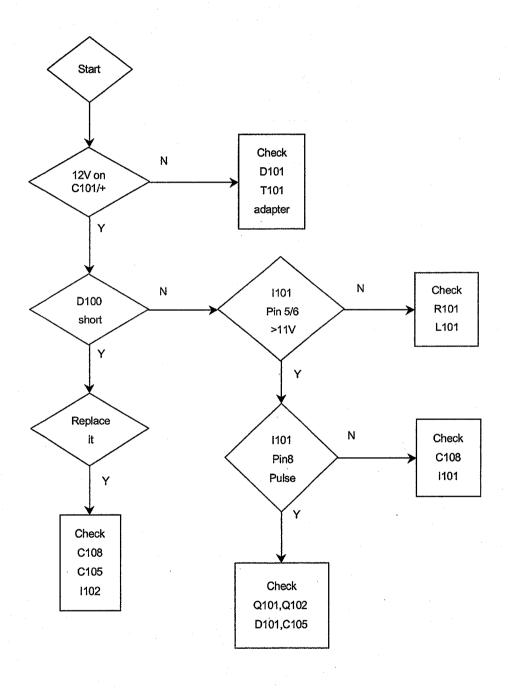
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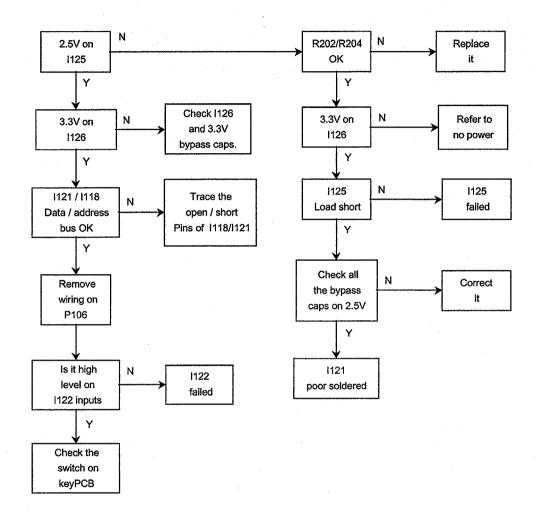
10. TROUBLE SHOOTING FLOW CHART

10.1. NO POWER

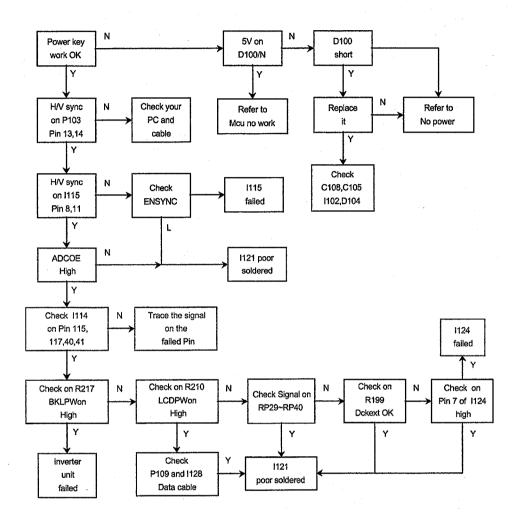


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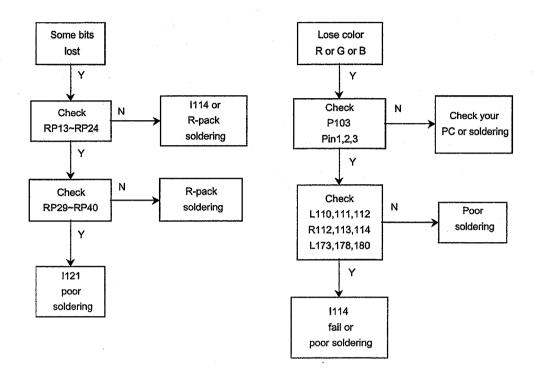
10.2. MCU NO FUNCTION



10.3. NO DISPLAY



10.4. LOSE COLOR



11. ADJUSTMENT

11.1. ADJUSTMENT CONDITIONS AND PRECAUTIONS

- 1. Approximately 30 minutes should be allowed for warm up before proceeding.
- 2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
- 3. ESD protection is needed before adjustment.

11.2. MAIN ADJUSTMENTS

NO. FUNCTION
1. WHITE BALANCE

DESIGNATION

F.

FUNCTION KEY

11.3. ALIGNMENT PROCEDURES

Adjustment Conditions and Precautions:

(A). Power supply voltage:

AC 110/120V± 10% 60 Hz± 5%, AC 220/240V± 10% 50 Hz± 5%.

(B). Warm up time:

The display must be power ON for at least 30 minutes at full white pattern before starting alignments. This is especially critical in color temperature and white balance adjustments.

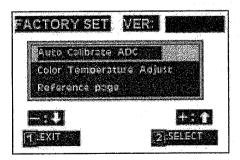
(C). Signals: reference to the front detail specifications and timing table.

Video: reference to the front detail specifications.

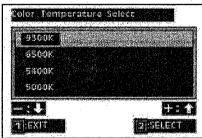
1. Adjustment of White Balance:

Presetting:

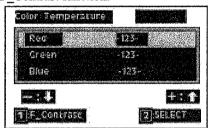
- (a). Warm up time must be over 30 minutes.
- (b). Set 80KHZ 1280x1024 at 16 gray pattern.
- (c). Set up CA110 color analyzer at the center of screen and along a perpendicular to the screen at 20cm from the display.
- (d). Press "▲", "▼" key and power keys the same time to activate FACTORY SET OSD. Shown below.



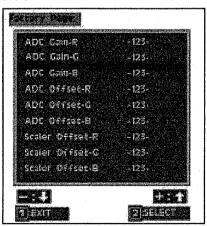
- (e). Do the Auto Calibrate ADC on 16 gray pattern by pressing ② key.
- (f). Press "▼" key to move cursor to Color Temperature Select option and do the following presets:
- (g). 9300K, $x = 0.283 \pm 0.02$, $y=0.298 \pm 0.02$ 6500K, $x = 0.305 \pm 0.02$, $y=0.342 \pm 0.02$ 5400K, $x = 0.332 \pm 0.02$, $y=0.342 \pm 0.02$ 5000K, $x = 0.346 \pm 0.02$, $y=0.359 \pm 0.02$ $Y>170 \text{ cd/m}^2$, @6500K



(h). Select one color for preset by ② key, then adjust R,G,B values by "▲","▼" keys to meet color chromaticity. Verify the color deviation less then 0.03 by F Contrast function.



- (i). Exit and save the adjustments by ① key, and do the other presets in same procedures till finishing all.
- (j). Do Not adjust the following Menu, which is only for checking input signal levels.



12. ELECTRICAL PARTS LIST

When you place a parts order, be sure to indicate the following data on the order:

• Location No.

- Parts No.
- Description

LOC NO. SOURCE	PART NO.	DESCRIPTION	SPECIFIC	ATION		REMARK	
MAIN P.C.BOARI	ס						
C101	2333447701	CAP,MINI ELE 105'C	CE04W	470.000UF 25V	M		
C102	2335310812	CAP,MINI ELE 105'C	CE04	1000.000UF 16V	M		
C103	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C104	2346110296	CAP,CHIP 125°C	1608X7R	1000.000PF 50V	K		
C105	2347410596	CAP,CHIP 85'C	2012Y5V	1.000UF 50V	Z		
C106	2336310701	CAP,MINI ELE105'C	CE04W	100.000UF 16V	M		
C107	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C108	2346147196	CAP,CHIP 125'C	1608X7R	470.000PF 50V	K		
C109	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C110	2335210812	CAP,MINI ELE 105'C	CE04W	1000.000UF 10V	M		
Č111	2335210812	CAP,MINI ELE 105'C	CE04W	1000.000UF 10V	M		
C112	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C113	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C114	2333447701	CAP,MINI ELE 105'C	CE04W	470.000UF 25V	M		
C115	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	· · Z		
C116	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C117	2341110096	CAP, CHIP 125'C	1608COG	10.000PF 50V	J		
C118	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C121	2341110096	CAP, CHIP 125'C	1608COG	10.000PF 50V	J		
C122	2341110096	CAP,CHIP 125'C	1608COG	10.000PF 50V	J		
C123	2341110096	CAP,CHIP 125'C	1608COG	10.000PF 50V	J		
C151	2336310701	CAP,MINI ELE105'C	CE04W	100.000UF 16V	M		
C152	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C152	2336347601	CAP,MINI ELE105'C	CE04W	47.000UF 16V	M		
C155	2336347601	CAP,MINI ELE105'C	CE04W	47.000UF 16V	M		
C156	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	Z		
	2341147096	CAP,CHIP 125'C	1608COG	47.000PF 50V	J		
C157	2341147096	CAP,CHIP 125'C	1608COG	47.000FF 50V	j		
C158	2346439396	CAP,CHIP 85'C	1608Y5V	0.039UF 50V	Z		
C159		CAP, CHIP 125'C	1608X7R	3900.000PF 50V	K		
C160	2346139296	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C161	2346410496	•	1608Y5V	0.100UF 50V	Z		
C162	2346410496	CAP, CHIP 85'C			Z		
C163	2346410496	CAP, CHIP 85'C	1608Y5V		Z		
C164	2346410496	CAP,CHIP 85'C	1608Y5V		ž		
C165	2346410496	CAP,CHIP 85'C	1608Y5V		Z		
C166	2346410496	CAP,CHIP 85'C	1608Y5V		Z		
C167	2346410496	CAP,CHIP 85'C	1608Y5V		Z		
C168	2346410496	CAP,CHIP 85'C	1608Y5V				
C169	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C170	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V			
C171	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C172	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V			
C173	2346447396	CAP,CHIP 85'C	1608Y5V	0.047UF 50V	Z		
C174	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C175	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C176	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V			
C177	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C178	2346447396	CAP, CHIP 85'C	1608Y5V	0.047UF 50V			
C180	2346447396	CAP,CHIP 85'C	1608Y5V	0.047UF 50V			
C181	2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF 50V			
C182	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V			
C183	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V			
C184	2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF 50V	Z		
C104							

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFIC	CATION			REMARK
C208		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	М	
C209		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C210		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C211		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C212		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C213		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C214		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C215		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C216		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C217		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C218		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C219		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M	
C220		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C221		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C222		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C223		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C224		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C225		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C226		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C227		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C228		2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C229		2336347601	CAP, MINI ELE105'C	CE04W	47.000UF	16V	M	
C230		2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C231		2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C232		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C233		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C234		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	ž	
C235		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M	
C236		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C237		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	z	
C237		2346410496		1608Y5V		50V	Z	
			CAP,CHIP 85'C		0.100UF	50V	Z	
C239 C240		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C241		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C242		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF			
C243		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z Z	
C244		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V		
C245		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C246		2336310601	CAP,MINI ELE105'C	CE04W	10.000UF	16V	M	
C247		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C248 .		2346410496	CAP,CHIP 85'C	1608Y5V		50V	Z	
C249		2335210812	CAP,MINI ELE 105'C	CE04W	1000.000UE		M	
C250		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C251		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C252		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M	
C253		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C254		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M	
C255		2336347601	CAP,MINI ELE105'C	CE04W	47.000UF	16V	M	
C256		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C257		2333322701	CAP,MINI ELE 105'C	CE04W	220.000UF	16V	M	
C258		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C259		2333647601	CAP,MINI ELE 105'C	CE04W	47.000UF	50V	M	
C260		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C261		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C262		2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C263		2336347601	CAP, MINI ELE105'C	CE04W	47.000UF	16V	M	
C264		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C265		2346110296	CAP.CHIP 125'C	1608X7R	1000.000PF		ĸ	
C266		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	·Z	
C267		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C268	•	2346410496	CAP,CHIP 85'C	160815V 1608Y5V	0.100UF	50V	Z	
							Z.	
C269		2346410496	CAP, CHIP 85'C	1608Y5V	0.100UF	50V		
C270		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	Z	
C271		2346410496	CAP,CHIP 85'C	1608Y5V	0.100UF	50V	$^{\prime}\mathbf{Z}$	

-28-

10/25/2000

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REM	IARK
C272		2346410496	CAP,CHIP 85'C	1608Y5V 0.100UF		
C273		2336347601	CAP,MINI ELE105'C	CE04W 47.000U		
C274		2346410496	CAP,CHIP 85'C	1608Y5V 0.100UF		
2275		2346410496	CAP,CHIP 85'C	1608Y5V 0.100UF		
276		2346410496	CAP,CHIP 85'C	1608Y5V 0.100UF		
C277		2346410496	CAP,CHIP 85'C	1608Y5V 0.100UF	5 50V Z	
278		2346410496	CAP, CHIP 85'C	1608Y5V 0.100UF	50V Z	
C279		2336347601	CAP, MINI ELE105'C	CE04W 47.000U	F 16V M	
C280		2346410496	CAP,CHIP 85'C	1608Y5V 0.100UF	5 50V Z	
C311		2336322701	CAP,MINI ELE105'C	CE04W 220.000	UF 16V M	
D100		2364503996	DIODE ZENER SMD	BZV55-C5V6	PHILIPS	
D101		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ	TEMIC GS08	
D102		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ	TEMIC GS08	
D103		2364500596	DIODE,ZENER SMD	RLZ11B 10.5-11.05V		
D103		2368600396	RECT BRIDGE SMD	EA60QC04-TE16F2	NI TO252	
		2364600196	DIODE,SWITCH SMD	LLA148 3.5X1.5 φ	TEMIC GS08	
D107				•		
D108		2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 φ	TEMIC GS08	
D109		2364600196	DIODE,SWITCH SMD	LLA148 3.5X1.5 φ	TEMIC GS08	
1101		2365914996	IC,DIGITAL SMD	RT9568	RICH TEK SOP8	
1102	RA	2360606296	FET,N-CH(SMD)	HUF76107D3S	INTERSIL	
1102	RB	2365802596	IC,LINEAR(SMD)	IRF7807	IR S008	
1112		2365805296	IC,LINEAR(SMD)	LM1881M	NS	
1113		2365412600	IC,DIGITAL	24LC21A/P	MICROCHIP	
[114		2365913496	IC,DIGITAL SMD	AD9884AKS-140 A	• •	
[115		2365916196	IC,DIGITAL SMD	74LVC126AD	PHILIPS SOP14	
[118		2365914696	IC,DIGITAL SMD	MBM29LV400TC-10		
1119	RA	2365316200	IC,LINEAR	24LC16B	MICROCHI	
I119	RB	2365915896	IC,DIGITAL SMD	24LC16B/SN	MICROCHIP SO08	
1121		2365914396	IC,DIGITAL SMD	PW164-20R PIXELW	VORKS BGA256	
1122		2365804096	IC,LINEAR(SMD)	74LVC541A	PHILIPS TSSOP20	
1123		2365913196	IC,DIGITAL SMD	ICS502M	ICS S008	
I124		2365913096	IC,DIGITAL SMD	ICS501M	ICS S008	
I125	RA	2365805196	IC,LINEAR(SMD)	APL1084-UC	ANPEC TO-252	
1125	RB	2365804996	IC,LINEAR(SMD)	US1050CD	UNISEM TO252	
1126		2365804896	IC,LINEAR(SMD)	AMC7585-3.3ST	ST TO263	
I127		2360606896	FET,N-CH(SMD)	IRF7304	IR S08	
1128		2365914596	IC,DIGITAL SMD	SII150A	S.I. TQFP100	
1129		2365913296	IC,DIGITAL SMD	M62334FP	MITSUBISHI S008	
L101		2379620196	BEAD,HI-IMPEDANCE	3216MZ 200.00OH	M I<300MA	
L102		2371110700	COIL CHOKE	JT156D2 0.23*4 21T		
L108		2379620196	BEAD, HI-IMPEDANCE			
L109		2379620196	BEAD, HI-IMPEDANCE			
L110		2253300096	RES,CHIP 1/8	RC 1/8W 0.00	J T2012	
L111		2253300096	RES,CHIP 1/8	RC 1/8W 0.00	J T2012	
L112		2253300096	RES,CHIP 1/8	RC 1/8W 0.00	J T2012	
L112 L114		2379620196	BEAD,HI-IMPEDANCE			
L115		2379620196	BEAD,HI-IMPEDANCE			
	•	2379620196	BEAD,HI-IMPEDANCE			
L116 L125		2379101495	FERRITE CORE	3.5X9X0.8	L. L. DVUILLE	
		2409200400	JACK,DC POWER	Q-JACK00035	LEOCO	
P101				D-SUB 15P(BLU) PC		
P103		2404381006	CONNECTOR	S8B-PH-K 8PIN	JST	
P106		2404301107	CONNECTOR		301	
P107		2404301003	CONNECTOR	S4B-XH-A 4PIN	просе	
P109		2407610125	SOCKET,SMD	DF14-25P-1.25H	HIROSE	
P110	- ·	2404301105	CONNECTOR	S6B-PH-K 6PIN	JST POUM SMT2	
Q101	R.A	2360100196	XISTOR,PNP R SMD	2SA1037AKR	ROHM SMT3	
Q101	RB	2360100396	XISTOR,PNP R SMD	MMBT3906-7	VISHAY SOT-23	
Q102	RA	2360100196	XISTOR,PNP R SMD	2SA1037AKR	ROHM SMT3	
Q102	RB	2360100396	XISTOR,PNP R SMD	MMBT3906-7	VISHAY SOT-23	
Q403	RA	2360100196	XISTOR,PNP R SMD	2SA1037AKR	ROHM SMT3	
Q403	RB	2360100396	XISTOR,PNP R SMD	MMBT3906-7	VISHAY SOT-23	
Q404	RA	2360300196	XISTOR,NPN R SMD	2SC2412KR	ROHM SMT3	
Q404	RB	2360300296	XISTOR,NPN R SMD	HMBT3904	HI-SIN SOT-23	•
Q404	RC	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA	

10/25/2000

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
Q404	RD	2360300596	XISTOR,NPN R SMD	MMBT3904-7 VIS	SHAY SOT-23
Q405	RA	2360300196	XISTOR NPN R SMD	2SC2412KR RO	HM SMT3
Q405	RB	2360300296	XISTOR,NPN R SMD		SIN SOT-23
Q405	RC	2360300396	XISTOR,NPN R SMD		TOROLA
Q405 Q405	RD	2360300596	XISTOR,NPN R SMD		SHAY SOT-23
Q406	RA	2360300196	XISTOR,NPN R SMD		
Q406	RB	2360300296	XISTOR,NPN R SMD		SIN SOT-23
Q406	RC	2360300396	XISTOR,NPN R SMD		TOROLA
Q406	RD	2360300596	XISTOR,NPN R SMD		SHAY SOT-23
RP13		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP14		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP15		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP16		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP17		2259247008	RES, CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP18		2259247008	RES, CHIP NETWORKS		
RP19		2259247008	RES, CHIP NETWORKS		
			RES,CHIP NETWORKS		
RP20		2259247008	•		
RP21		2259247008	RES,CHIP NETWORKS		
RP22		2259247008	RES,CHIP NETWORKS		
RP23		2259247008	RES,CHIP NETWORKS		
RP24		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP29		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP30		2259247008	RES, CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP31		2259247008	RES, CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP32		2259247008	RES, CHIP NETWORKS		
RP33		2259247008	RES, CHIP NETWORKS		
			RES,CHIP NETWORKS		
RP34		2259247008			
RP35		2259247008	RES,CHIP NETWORKS		
RP36		2259247008	RES,CHIP NETWORKS		
RP37		2259247008	RES,CHIP NETWORKS		
RP38		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP39		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
RP40		2259247008	RES,CHIP NETWORKS	08P*04R 1/16W 47.00 J P	=0.8
R101		2235315895	RES,MTL 1/2	RS 1/2W 0.15 J	T52
R102		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00 J	T1608
R103		2253230296	RES,CHIP 1/10W	RC 1/10W 3.00K J	T1608
R104		2253220296	RES,CHIP 1/10W	RC 1/10W 2.00K J	T1608
			•		
R105		2253227496	RES,CHIP 1/10W	RC 1/10W 270.00K J	T1608
R106		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K J	T1608
R107		2253230296	RES,CHIP 1/10W	RC 1/10W 3.00K J	T1608
R111		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	T1608
R112		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00 J	T1608
R113		2253210196	RES.CHIP 1/10W	RC 1/10W 100.00 J	T1608
R114		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00 J	T1608
R115		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00 J	T1608
R116		2253268496	RES,CHIP 1/10		T1608
R128		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	T1608
R129		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	T1608
R130		2253220296	RES,CHIP 1/10W	RC 1/10W 2.00K J	T1608
R131		2253233296	RES,CHIP 1/10W	RC 1/10W 3.30K J	T1608
R133		2253220296	RES,CHIP 1/10W	RC 1/10W 2.00K J	T1608
R134		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00 J	T1608
R135		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00 J	T1608
			RES,CHIP 1/10W	RC 1/10W 10.00K J	T1608
R136		2253210396			
R137		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00 J	T1608
R138		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00 J	T1608
R139		2251307506	RES,CHIP 1/8	RC 1/8W 75.00 F	
R140		2251307506	RES,CHIP 1/8	RC 1/8W 75.00 F	
R141		2251307506	RES, CHIP 1/8	RC 1/8W 75.00 F	
R143		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	T1608
R144		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	T1608
			•		
R145		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	T1608
R163	•	2253233296	RES,CHIP 1/10W	RC 1/10W 3.30K J	T1608
R164		2253233296	RES,CHIP 1/10W	RC 1/10W 3.30K J	T1608

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
R165		2253233296	RES,CHIP 1/10W	RC 1/10W 3.30K J	T1608
R171		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	T1608
R172		2253233296	RES,CHIP 1/10W	RC 1/10W 3.30K J	T1608
R173		2253233296	RES,CHIP 1/10W	RC 1/10W 3.30K J	
R174		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	
R175		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	
R178		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	
R180		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	
			RES,CHIP 1/10W	RC 1/10W 10.00K J	
R181		2253210396	•	RC 1/10W 10.00K J	
R182		2253210396	RES,CHIP 1/10W RES,CHIP 1/10W	RC 1/10W 10.00K J	
R183		2253210396		RC 1/10W 10.00K J	
R184		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	
R185		2253210396	RES,CHIP 1/10W		
R186		2253210396	RES,CHIP 1/10W		
R187		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	
R188		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K J	
R190		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	
R193		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K J	
R194		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00 J	
R195		2253220196	RES,CHIP 1/10W	RC 1/10W 200.00 J	
R196		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K J	
R197		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K J	
R198		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	
R199		2253210196	RES,CHIP 1/10W	RC 1/10W 100.00 J	
R200		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	T1608
R202		2253247196	RES,CHIP 1/10W	RC 1/10W 470.00 J	T1608
R203		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	T1608
R204		2253247196	RES,CHIP 1/10W	RC 1/10W 470.00 J	T1608
R205		2253275196	RES,CHIP 1/10W	RC 1/10W 750.00 J	T1608
R206		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K J	T1608
R207		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	T1608
R209		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	T1608
R210		2253247096	RES,CHIP 1/10W	RC 1/10W 47.00 J	
R211		2253247296	RES,CHIP 1/10W	RC 1/10W 4.70K J	
R212		2253210396	RES,CHIP 1/10W	RC 1/10W 10.00K J	
R217		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K J	
R218		2253210296	RES,CHIP 1/10W	RC 1/10W 1.00K J	
T101		2370100296	COIL CHOKE SMD	10*8*5 700/100M 4A Rdc	
U001		2202506600	PCB MULTILAYER	JT177K MAIN FR4*4 1902	
X302		2369103901	XTAL,OSC	XTAL 24.576MHZ HC-49/	
X302 X303		2369102901	XTAL,OSC	14.31818MHZ AT-49 CL3	
	C.BOARD		•		
D702		2363703800	LED		VERLIGHT
P701		2404301107	CONNECTOR		ST
S702		2403701500	SWITCH,PU-TC	SKHHAL2420-SV F	ORWARD
S703		2403701500	SWITCH, PU-TC	SKHHAL2420-SV F	ORWARD
S704		2403701500	SWITCH, PU-TC	SKHHAL2420-SV F	ORWARD
S705		2403701500	SWITCH, PU-TC		ORWARD
S707		2403701500	SWITCH,PU-TC	SKHHAL2420-SV F	ORWARD
U701		2202506200	PCB MULTILAYER	JT177K CON FR4*2 175X	23
OTHERS	S				
P951	•	2427130014	POWER CORD	H05VV-F3*0.75 VDE WA	LL 1.83M (for VE170 EU)
P952		2427130003	POWER CORD	SVT 18/3C IVORY 1.83M	(for VE170 USA)
P951		2427130047	POWER CORD	EU WALL 1.8M HP LCD	(for VE170b)
P952		2427130046	POWER CORD	USA WALL 1.8M HP LCD	, ,
P961		2427501113	I/O CABLE	D15M*2 6+3C 1.8M RAL7	` ,
P961		2427501118	I/O CABLE	D15M*2 6+3C 1.83M BLA	
P980		2427412577	WIRE HARNESS	DF14-25S/JAE-W31S 2725	` ,
P981		2427412579	WIRE HARNESS	JST-PHR-8P*2 1061#28 30	
P982		2427412578	WIRE HARNESS	JST-PHR-6*2 1007#28 150	
1 702		2721712010	A TEAT THE STATEOUS	JJ1-1111C 2 100/1120 150	

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION		REMARK
U901	RA	2414500400	INVERTER	PLCD07174	LINK COM	
U901	RB	2414500500	INVERTER	HIN402D*35	HJC	
V901		2212001100	LCD ASS'Y	LT170E2-132	SAMSUNG	
Y901	RA	2414102100	AC ADAPTER	DC12V 43W P/S<1V	RAL7035 ABEL	(for VE170)
Y901	RB	2414102400	AC ADAPTER	DC12V 50W P/S<1 (V	J.S)H.J	(for VE170)
Y901	RC	2414102600	AC ADAPTER	DC12V 50W P/S<1 (V	J.S) LSE	(for VE170)
Y901	RA	2414101900	AC ADAPTER	AC100-240V DC12V	3.6A BLK ACBL	(for VE170b)
Y901	RB	2414103000	AC ADAPTER	DC12V 50W P/S<1 BI	LK(V.S.) LSE	(for VE170b)
Y901	RC	2414102900	AC ADAPTER	DC12V 50W P/S<1 BI	LK(VS) HJC	(for VE170b)